

FIG. 1A

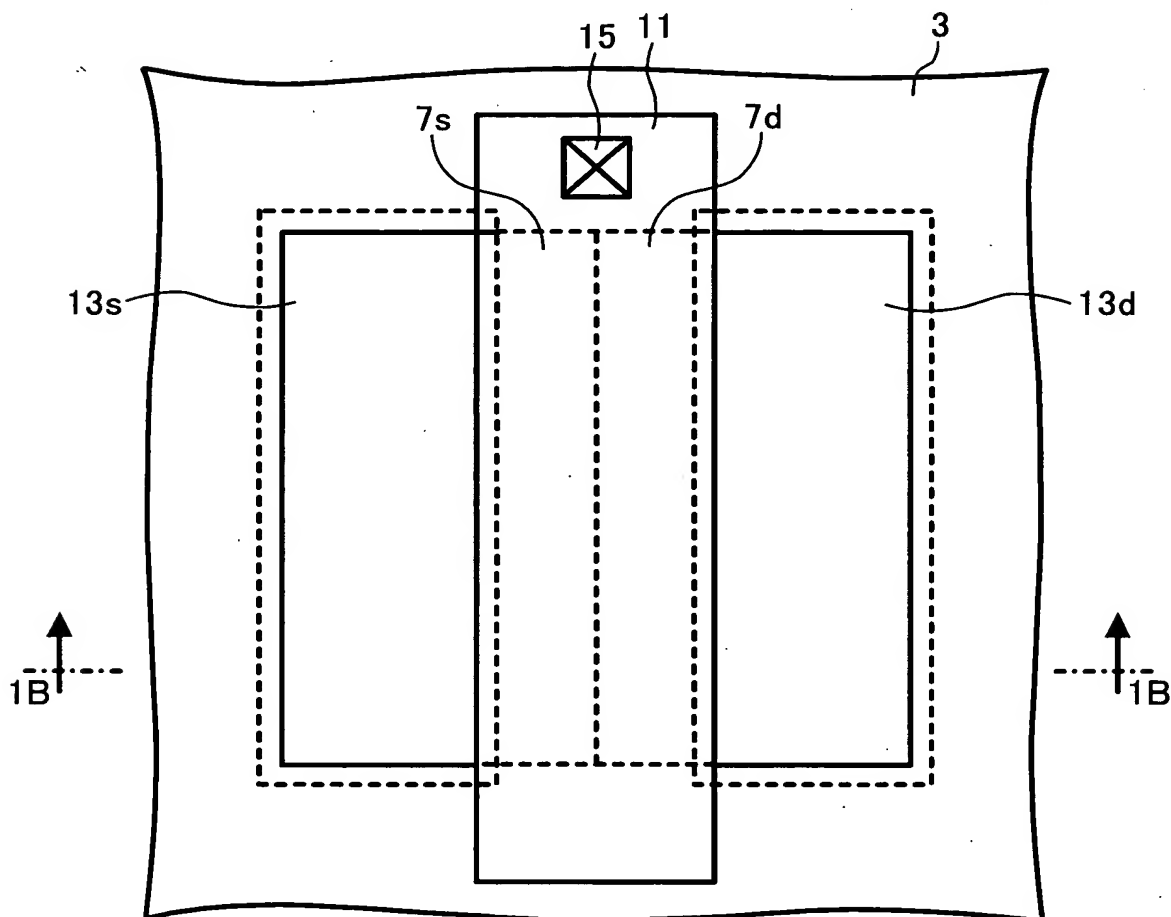


FIG. 1B

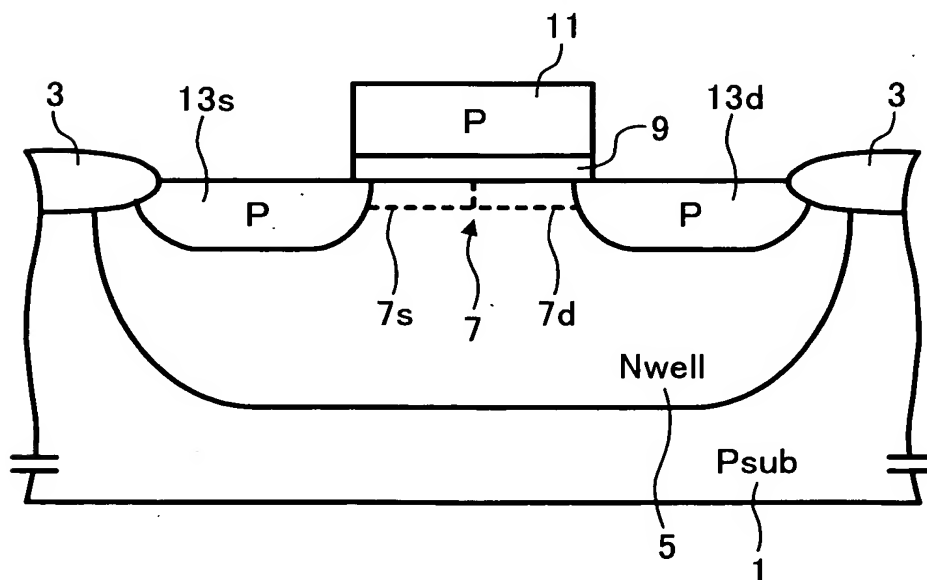


FIG. 2

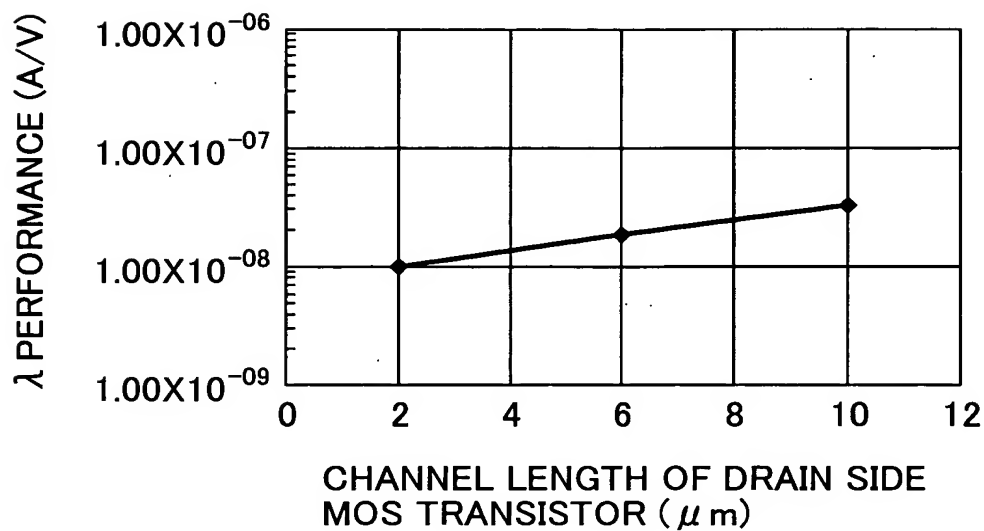


FIG. 3

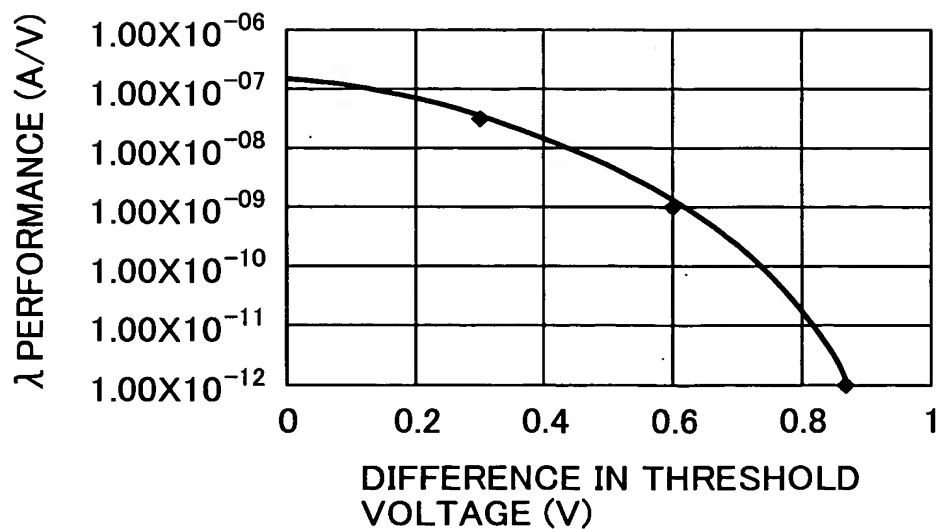


FIG. 4A

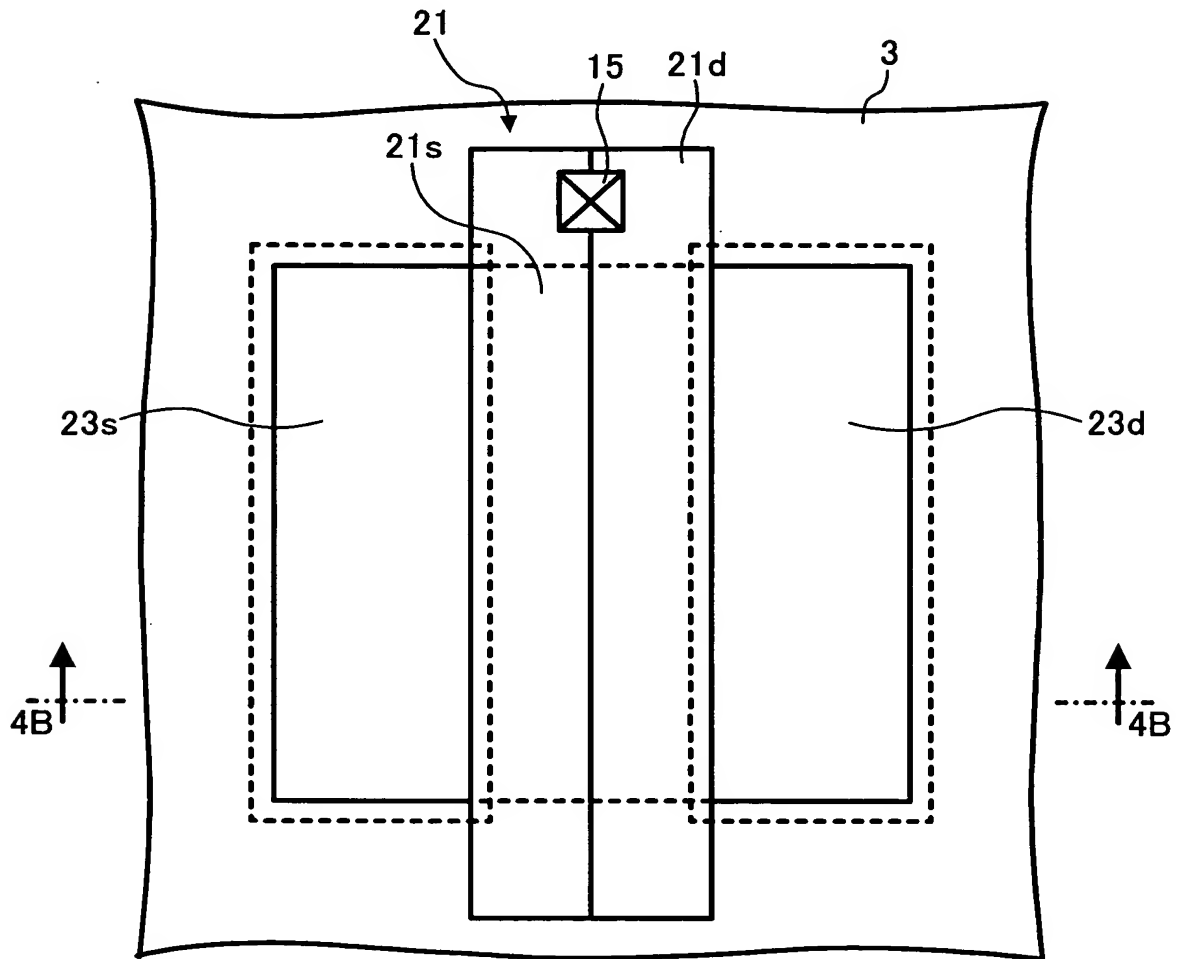


FIG. 4B

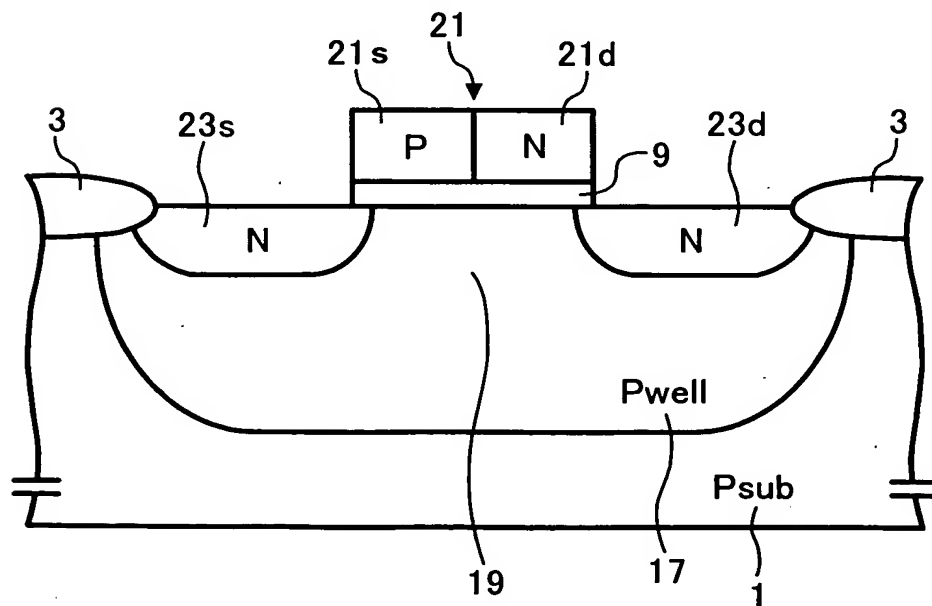


FIG. 5A

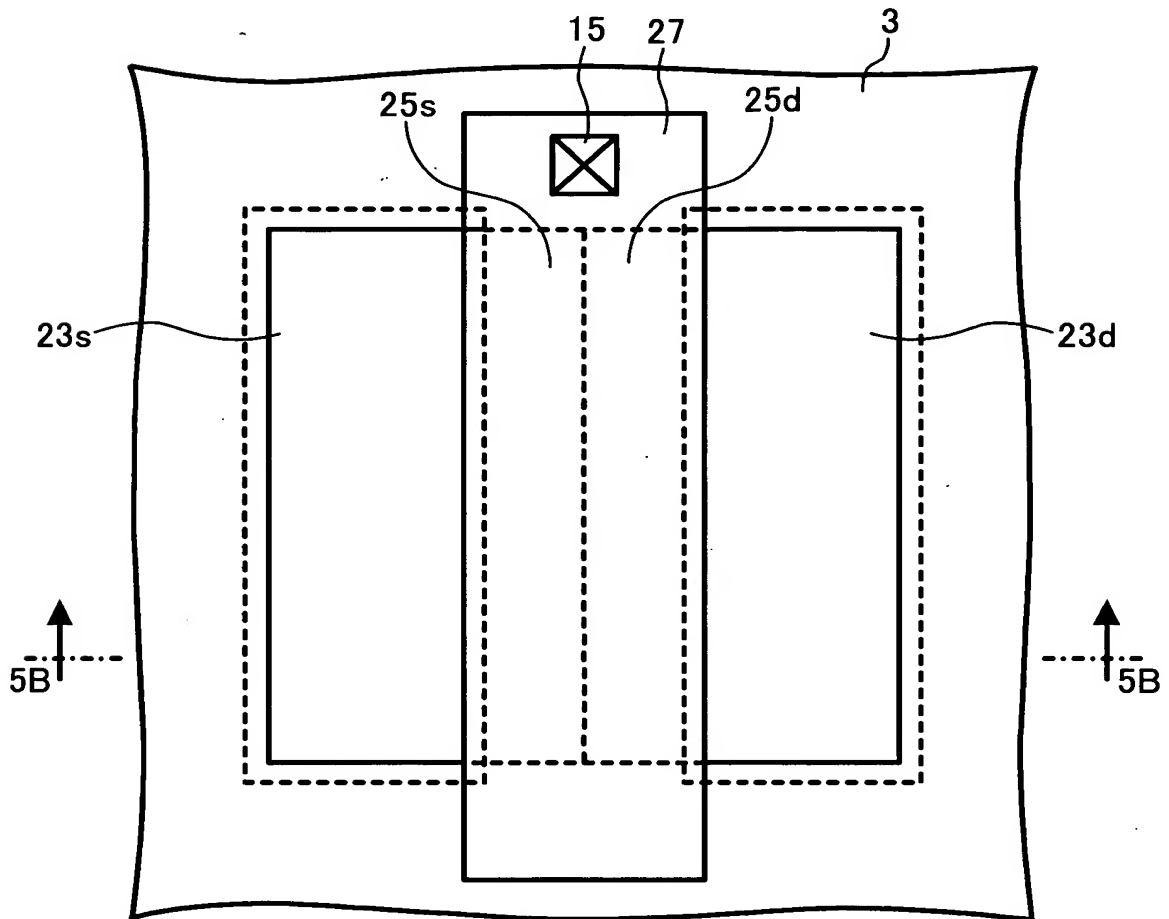
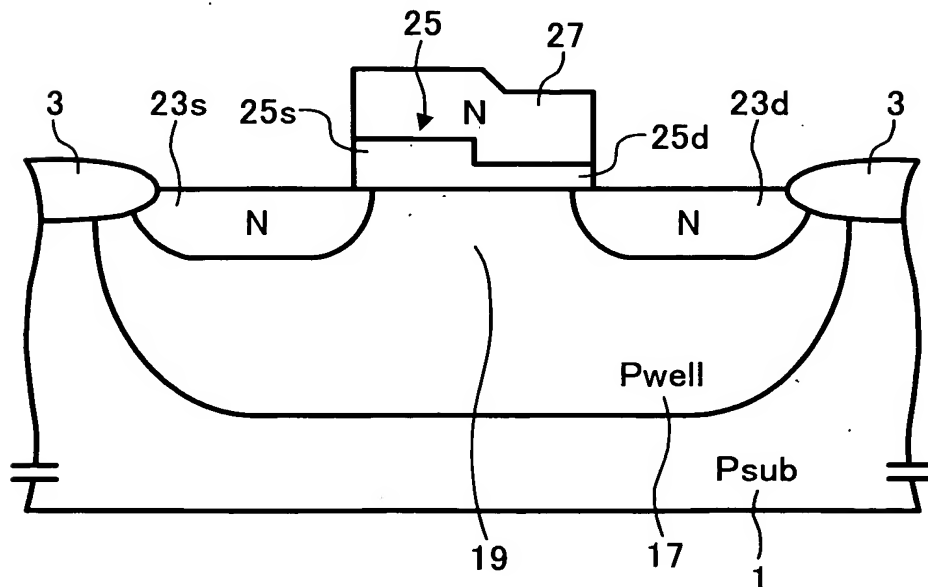
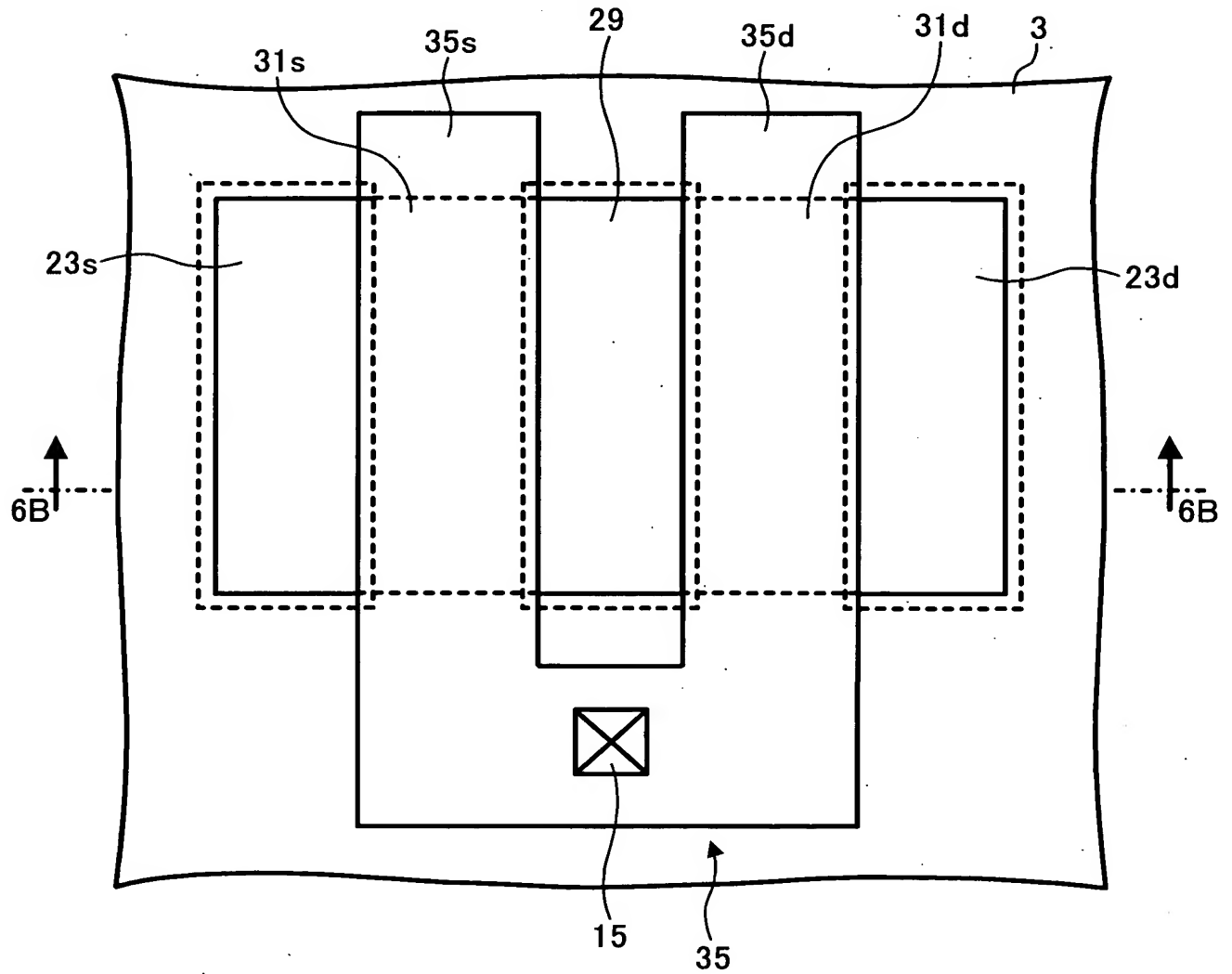


FIG. 5B



**FIG. 6A**



**FIG. 6B**

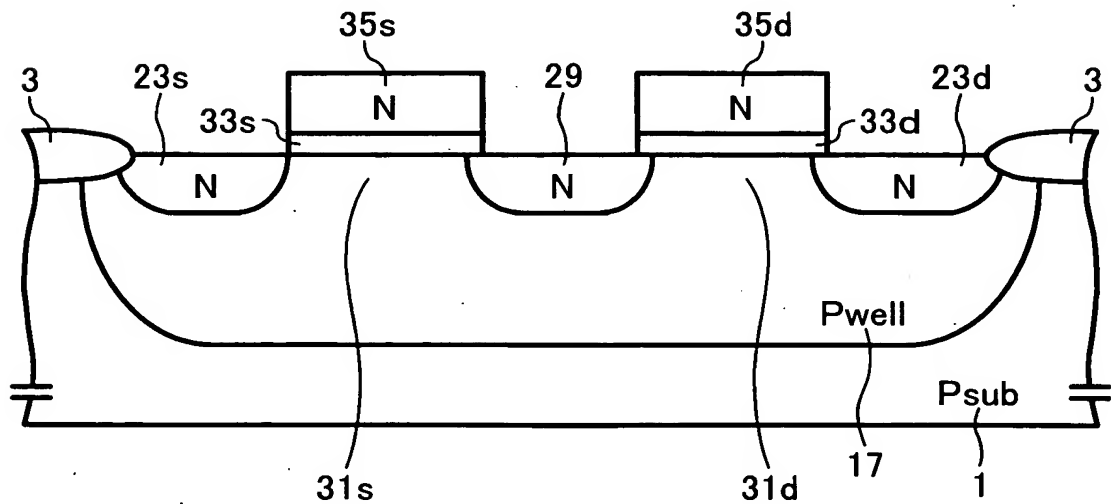


FIG. 7A

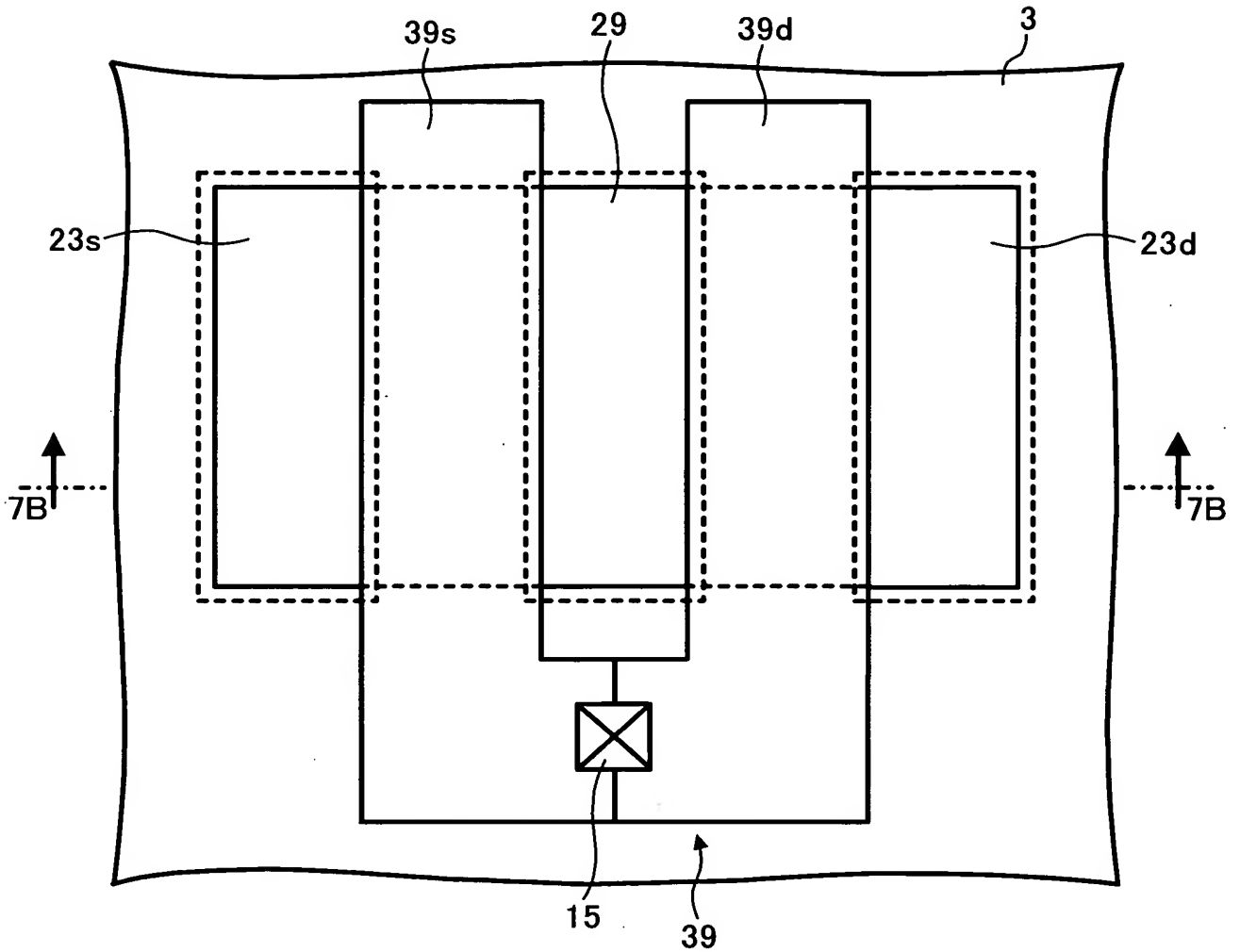
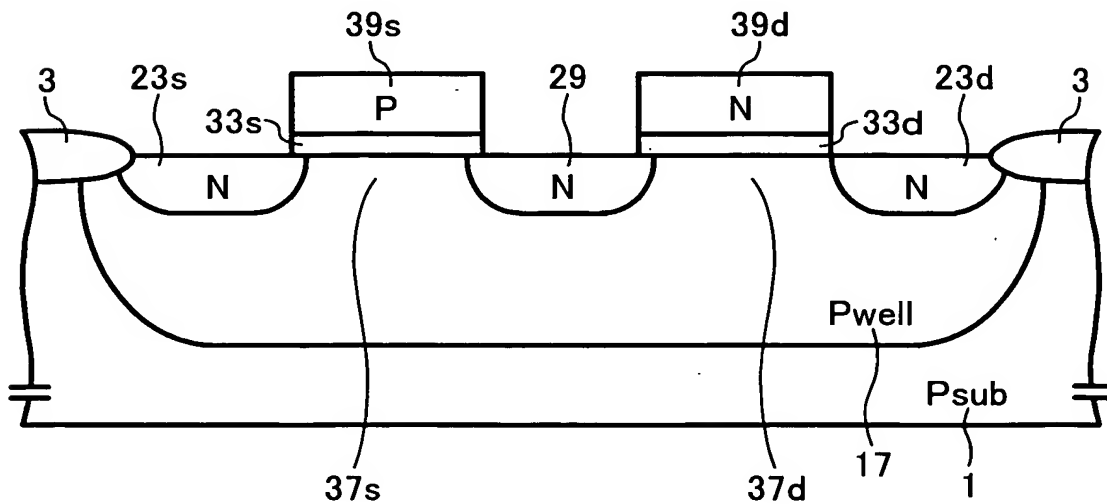
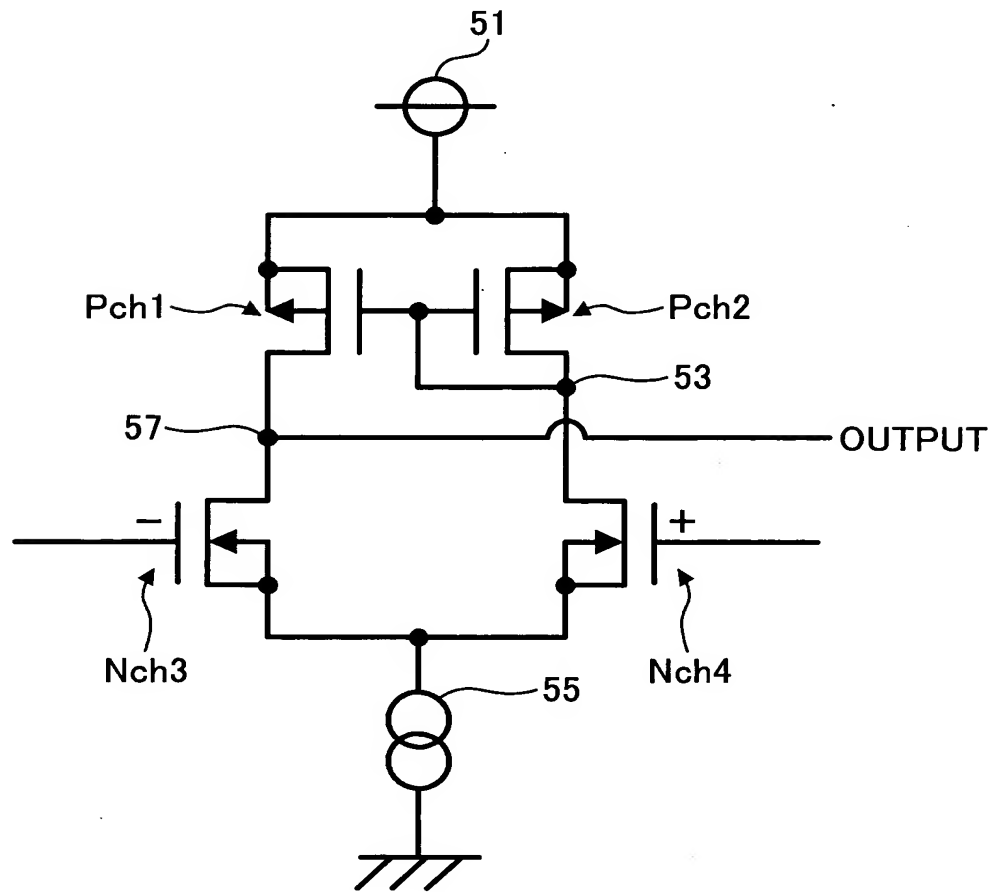


FIG. 7B



[illegible]

**FIG. 9**



**FIG. 10**

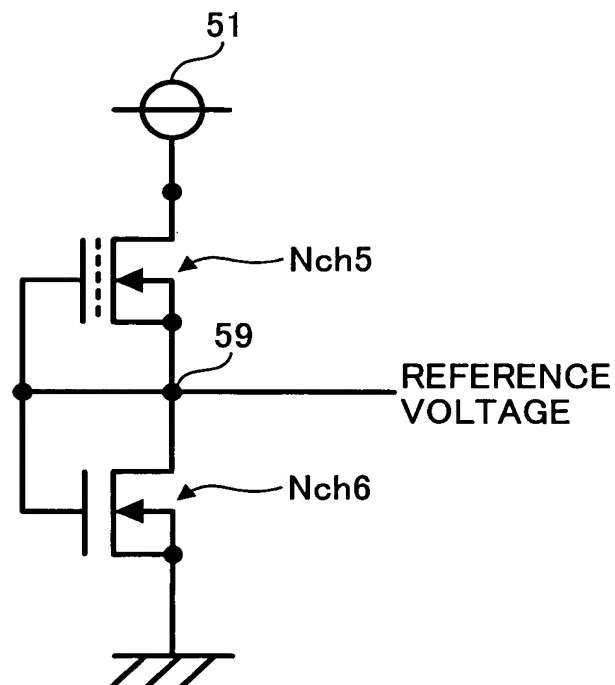




FIG. 11

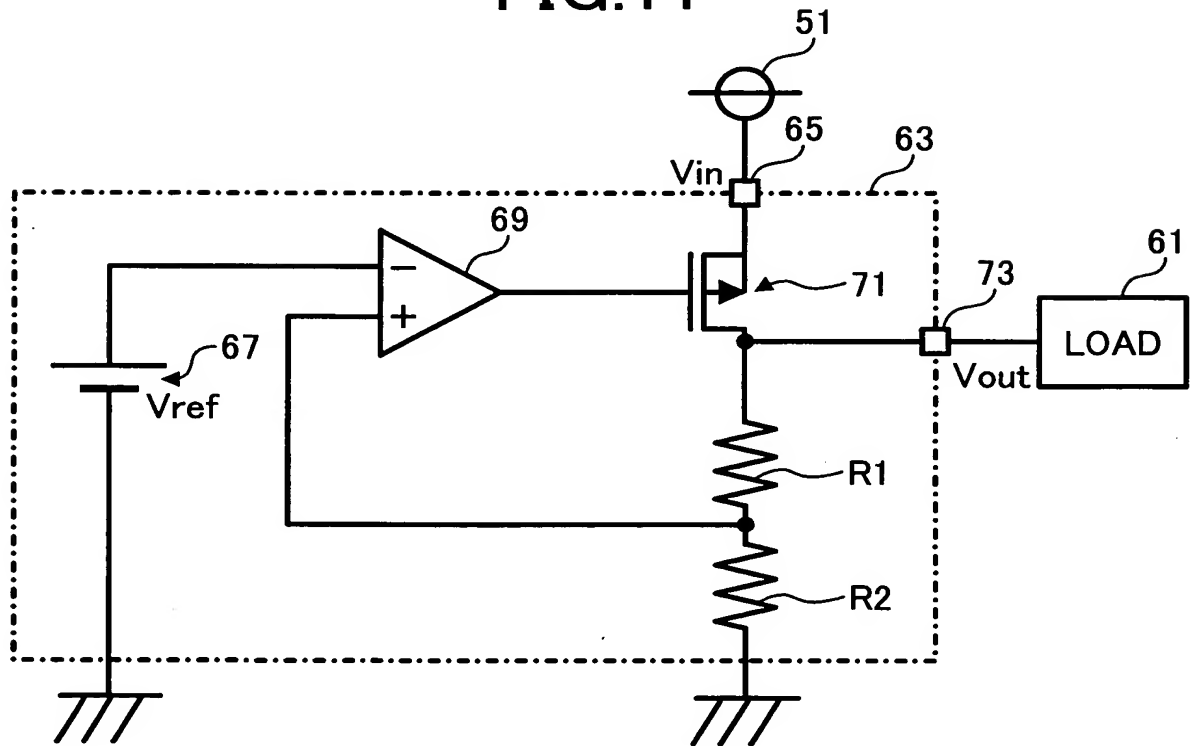
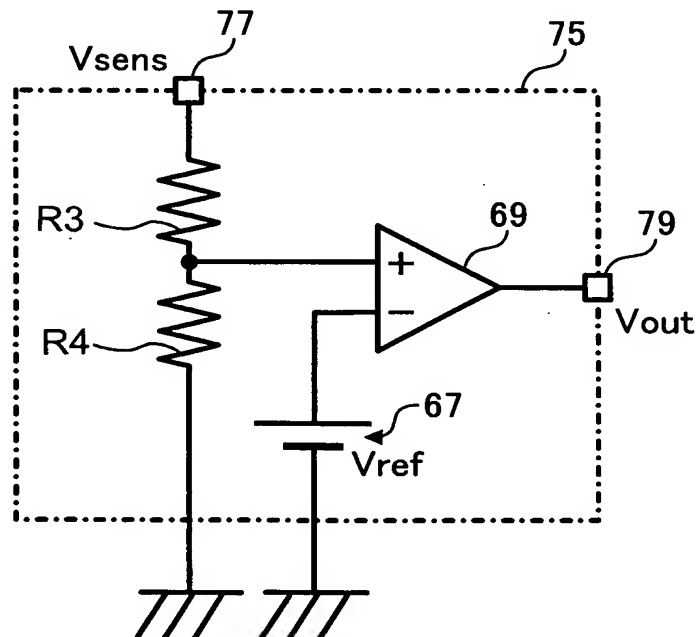
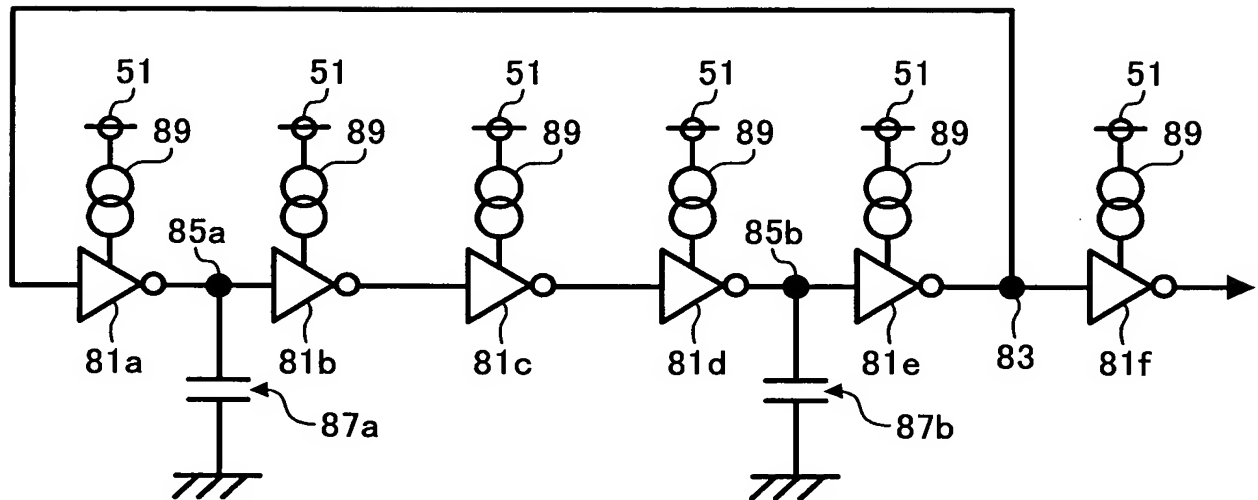


FIG. 12



**FIG. 13A**



**FIG. 13B**

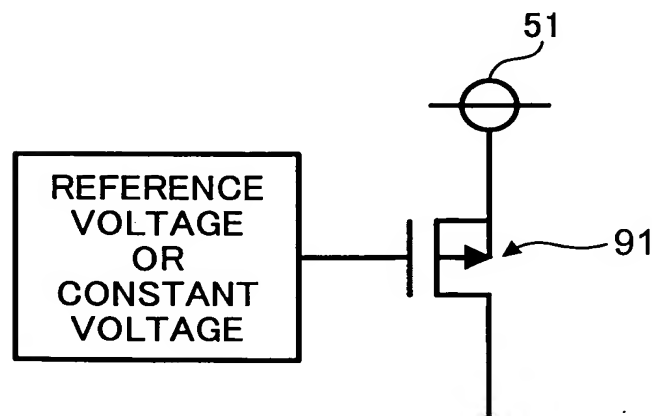


FIG.14

TABLE 1

	SOURCE SIDE V <sub>th</sub> -0.65V	DRAIN SIDE V <sub>th</sub> -0.35V	DRAIN SIDE V <sub>th</sub> +0.20V	$\lambda$ PERFORMANCE (A/V)
COMPARATIVE EXAMPLE 1	2.0 $\mu$ m	NOTHING	NOTHING	157 x 10 <sup>-9</sup>
COMPARATIVE EXAMPLE 2	10.0 $\mu$ m	NOTHING	NOTHING	35.4 x 10 <sup>-9</sup>
PRACTICAL EXAMPLE 1	2.0 $\mu$ m	2.0 $\mu$ m	NOTHING	9.93 x 10 <sup>-9</sup>
PRACTICAL EXAMPLE 2	2.0 $\mu$ m	10.0 $\mu$ m	NOTHING	33.2 x 10 <sup>-9</sup>
PRACTICAL EXAMPLE 3	2.0 $\mu$ m	NOTHING	10.0 $\mu$ m	0 (NO CHANGE)

FIG. 15

TABLE 2

	GATE ELECTRODE		$\lambda$ PERFORMANCE (A/V)	$\beta$ PERFORMANCE ( $\mu$ A/V <sup>2</sup> )
	SOURCE SIDE (P TYPE)	DRAIN SIDE (N TYPE)		
COMPARATIVE EXAMPLE	50 $\mu$ m	NOTHING	$3.80 \times 10^{-9}$	27.6
PRACTICAL EXAMPLE 1	10 $\mu$ m	40 $\mu$ m	$3.03 \times 10^{-10}$	145.0
PRACTICAL EXAMPLE 2	20 $\mu$ m	30 $\mu$ m	$9.61 \times 10^{-11}$	69.2
PRACTICAL EXAMPLE 3	30 $\mu$ m	20 $\mu$ m	0 (NO CHANGE)	44.9
PRACTICAL EXAMPLE 4	40 $\mu$ m	10 $\mu$ m	0 (NO CHANGE)	33.1